

AMENDMENTS TO THE CLAIMS

1. (Cancelled).

2. (Currently Amended) A method according to Claim 43, wherein:

forming an intersection set comprises forming a set on the basis of the values of the fields, in such a way that a set of classes is formed for each field; and

further wherein said intersection set comprises a field-specific set that incorporates service IDs, and a condition of a field used in a conditional statement of a given class of which is true, and

further wherein selecting a class comprises selecting the class that appears in all of the sets, i.e. whose conditional statement is entirely true.

3. (Currently Amended) A method for classifying records, the method comprising:

receiving records containing several fields, the fields of which records contain values,

reading the values contained in at least two specified fields from each of the received records,

selecting field-specifically ordered classification structures corresponding to the specified fields, which field-specifically ordered classification structures comprise an own ordered classification structure for each of the specified fields in the received record,
for each record;

searching from the selected classification structures a set of suitable classes for each of the specified fields, wherein the suitable classes correspond to a value read from one of said fields, and
forming an intersection set of the sets of suitable classes, and
selecting a class from the intersection set and assigning the selected class to the record, whereby said assigned class has been read from the field-specifically ordered classification structure.~~A method according to Claim 1,~~
wherein selecting a class ~~further comprises~~includes using the accuracy principle to select the class, to which the record is assigned, from the classes corresponding to a reference value or reference values, in which case that is selected, from of those corresponding to the reference value or reference values, which has the definition of which the greatest number of classification structure conditions are met.

4. (Currently Amended) A method according to any one of Claims 1—32 or 3, wherein selecting a class comprises selecting the class to which the record is assigned from the classes corresponding to a reference value or reference values, by applying an intersection or intersections and unions performed using logical operands.

5. (Currently Amended) A method according to claim 43, wherein searching comprises using a search method that is faster than a sequential search, such as a binary search, a tree search, a hash search, and further wherein the least comparisons are used to find a reference value according to the value read from one of said fields.

6. (Currently Amended) A method according to claim ~~43~~, wherein receiving records comprises receiving records that contain information regarding the properties of the telecommunications connections.

7. (Currently Amended) A method according to claim ~~43~~, wherein the fields of the records are fields marked with a field ID.

8. (Currently Amended) A method according to claim ~~43~~, wherein the fields contain values in various formats, such as numeric and symbolic values, and further wherein there are specific classification structures for the various formats, and/or indicators to the classification structures.

9. (Currently Amended) A method according to claim ~~43~~, wherein said selected class comprises a service class of billable telecommunications services, or a call, and/or types of telecommunications connections.

10. (Currently Amended) A method according to claim ~~43~~, wherein said selecting comprises separating the classes in the intersection set on the basis of conditions relating to the properties of telecommunications connections.

11. (Currently Amended) A method according to claim ~~43~~, wherein at least one field identifier corresponds to a field depicting the duration in time of a billable

telecommunications connection and/or a field depicting the volume and/or speed of the data transmitted over a billable telecommunications connection.

12. (Currently Amended) A method according to claim 43, wherein the received record is a telecommunications network event description record, such as a CDR, ER, IPDR, or UDR.

13. (Currently Amended) A method according to ~~any of Claims 1 – claim 2 or 3~~, wherein the names of the fields are set to form the entries of the table and for each field at least one operand-specific table according to at least one of the following operands is created, greater than (>), greater than or equal to (>=), less than <, less than or equal to (<=), equal to (=), and not equal to (!=) tables, so that a tree-like field-specific classification structure is created for each specified field.

14. (Currently Amended) A method according to claim 43, wherein the intersection set includes more than one class and, of these classes, the class with the greatest accuracy is selected during said selecting step, wherein accuracy is defined on the basis of the number of fields used in a conditional statement of the class.

15. (Currently Amended) A method according to claim 43, wherein the intersection set is an empty set and the class is selected in such a way that a review is made of the statement with next lowest accuracy.

16. (Currently Amended) A method according to claim 43, wherein said method is performed in a mediator system of a telecommunications network.

17. – 30 (Cancelled)

31. (Currently Amended) A computer-readable medium having embodied thereon a program that, when executed, causes a computer to execute a method for classifying records, the method comprising:

receiving records containing several fields, the fields of which records contain values,

reading the values contained in at least two specified fields from each of the received records,

selecting field-specifically ordered classification structures corresponding to the specified fields, which field-specifically ordered classification structures comprise an own ordered classification structure for each of the specified fields in the received record,

for each record:

searching from the selected classification structures a set of suitable classes for each of the specified fields, wherein the suitable classes correspond to a value read from one of said fields, and

forming an intersection set of the sets of suitable classes, and

selecting a class from the intersection set and assigning the selected class to the record, whereby said assigned class has been read from the field-specifically ordered classification structure,

wherein selecting a class includes using the accuracy principle to select the class, to which the record is assigned, from the classes corresponding to a reference value or reference values, in which case that is selected, from of those corresponding to the reference value or reference values, which has the definition of which the greatest number of classification structure conditions are met.